

10. (Amended) A chimeric pIX protein having at least one adenoviral pIX domain and a non-native amino acid sequence encoding a ligand that binds to a substrate present on the surface of a cell, wherein the non-native amino acid sequence is located internally within the chimeric protein.

19. (Twice Amended) An adenoviral capsid containing a chimeric pIX protein having at least one adenoviral pIX domain and a non-native amino acid sequence, wherein the non-native amino acid sequence constitutes the C-terminus of the chimeric protein.

42. (Amended) The chimeric pIX protein of claim 41, wherein at least one adenoviral pIX domain consists essentially of an adenoviral pIX peptide sequence (a) truncated at the C-terminus, (b) truncated at the N-terminus, or (c) truncated at the C-terminus with a second adenoviral pIX domain consisting essentially of an adenoviral pIX peptide sequence truncated at the N-terminus.

Please cancel claims 8, 14, 16, 30, 36, 40, and 43-45.

Please add claims 49-64.

49. (New) The chimeric pIX protein of claim 9, wherein the ligand is an RGD-containing or polylysine-containing sequence.

50. (New) The chimeric pIX protein of claim 9, wherein at least one adenoviral pIX domain consists essentially of an adenoviral pIX peptide sequence (a) truncated at the C-terminus, (b) truncated at the N-terminus, or (c) truncated at the C-terminus with a second adenoviral pIX domain consisting essentially of an adenoviral pIX peptide sequence truncated at the N-terminus.

51. (New) The chimeric pIX protein of claim 9, having only one adenoviral pIX domain consisting essentially of a full-length adenoviral pIX peptide sequence.

52. (New) A nucleic acid encoding the chimeric pIX protein of claim 9.

53. (New) An adenoviral capsid containing a chimeric pIX protein having at least one adenoviral pIX domain and a non-native amino acid sequence, wherein the non-native amino acid sequence constitutes the N-terminus of the chimeric protein.

54. (New) The adenoviral capsid of claim 53, comprising an adenoviral penton base protein having a mutation affecting at least one native RGD sequence.

55. (New) An adenoviral vector comprising the adenoviral capsid of claim 53 and an adenoviral genome.

56. (New) The chimeric pIX protein of claim 10, wherein the ligand is an RGD-containing or polylysine-containing sequence.

57. (New) The chimeric pIX protein of claim 10, wherein at least one adenoviral pIX domain consists essentially of an adenoviral pIX peptide sequence (a) truncated at the C-terminus, (b) truncated at the N-terminus, or (c) truncated at the C-terminus with a second adenoviral pIX domain consisting essentially of an adenoviral pIX peptide sequence truncated at the N-terminus.

58. (New) The chimeric pIX protein of claim 57, wherein at least one adenoviral pIX domain consists essentially of an adenoviral pIX peptide sequence truncated at the C-terminus with a second adenoviral pIX domain consisting essentially of an adenoviral pIX peptide sequence truncated at the N-terminus, and a spacer peptide domain separates the first and the second adenoviral pIX domains.

59. (New) The chimeric pIX protein of claim 58, wherein the spacer peptide domain comprises the ligand domain.

60. (New) The chimeric pIX protein of claim 10, having only one adenoviral pIX domain consisting essentially of a full-length adenoviral pIX peptide sequence.

61. (New) A nucleic acid encoding the chimeric pIX protein of claim 10.

62. (New) An adenoviral capsid containing a chimeric pIX protein having at least one adenoviral pIX domain and a non-native amino acid sequence, wherein the non-native amino acid sequence is located internally within the chimeric protein.